	Application No.	Application No. Applicant(s)		
Notice of Allowability	40/040 040	OLIOLET AL		
	10/612,040 Examiner	CHOI ET AL.		
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	Tianjie Chen	2627		
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT I of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in 5) or other appropriate commur RIGHTS. This application is su	this application. If not include nication will be mailed in due of	d course. THIS	
1. \boxtimes This communication is responsive to <u>Amendment filed on</u>	<u>04/05/2007</u> .			
2. X The allowed claim(s) is/are <u>1,4,5,8,9 and 14-16</u> .				
3. ☑ Acknowledgment is made of a claim for foreign priority to a) ☑ All b) ☐ Some* c) ☐ None of the:		· (f).		
Certified copies of the priority documents have Contified copies of the priority documents have		Na		
2. Copies of the priority documents have			: 6 4 1	
 Copies of the certified copies of the priority d International Bureau (PCT Rule 17.2(a)). 	locuments have been received	in this national stage applicat	ion from the	
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* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD'IS NOT EXTENDABLE.		a reply complying with the req	uirements	
4. A SUBSTITUTE OATH OR DECLARATION must be sub-			OTICE OF	
5. CORRECTED DRAWINGS (as "replacement sheets") mu	ust be submitted.			
(a) including changes required by the Notice of Draftspe		(PTO-948) attached		
1) 🗌 hereto or 2) 🗍 to Paper No./Mail Date	·			
(b) ☐ including changes required by the attached Examine Paper No./Mail Date	r's Amendment / Comment or i	n the Office action of		
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in			back) of	
 DEPOSIT OF and/or INFORMATION about the dep attached Examiner's comment regarding REQUIREMENT 	osit of BIOLOGICAL MATE TFOR THE DEPOSIT OF BIO	RIAL must be submitted. N LOGICAL MATERIAL.	ote the	
Attack was made)				
Attachment(s) 1. Notice of References Cited (PTO-892)	5 ☐ Notice of Info	ormal Patent Application		
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)		, ,		
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No./N	fail Date		
Paper No./Mail Date				
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	-	8. Examiner's Statement of Reasons for Allowance		
	9. Other	// 7		
		TIANJIE CHEN PRIMARY EXAMINI	mjre ER	

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REASONS FOR ALLOWANCE

- 1. The following is an examiner's statement of reasons for allowance:
 - With regard to independent claims 1 and 5, as the closest reference of record, the combination of Morinaga (JP 8-203259A), Park (US 6,859,933), and Hirasaka et al (US 6,690,540) discloses a disk tray for a disk drive that slides in and out of the disk drive, the disk tray comprising two or more resonators mounted on a lower surface of the disk tray to selectively reduce noise of at least two predetermined frequency bands that correspond to dominant noise frequency bands above 200 Hz, wherein each of the two or more resonators comprises: a through hole penetrating the disk tray and operating as an entrance and a bottle neck of each resonator; and a resonance container surrounding the through hole and having a predetermined volume, the predetermined frequency band being determined according to an area of a profile of the through hole, a length of the bottle neck of the through hole, and a volume of the resonance container; wherein the resonator further comprises an absorbing member filling the resonance container; but fails to show that the absorbing member is to selectively reduce noise of one of the at least two predetermined frequency bands and wherein the absorbing member is a porous material.
 - With regard to independent claim 14, as the closest reference on record, the combination of Morinaga (JP 8-203259A) and Park et al (EP 1 207 532 A2) shows a resonator having a resonance container for a disk tray, which is being mounted on the disk tray to selectively reduce noise of a

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predetermined frequency band, the predetermined frequency band being determined according to an area of a profile of the through hole, a length of the bottle neck of the through hole, and the volume of the resonance container, an absorbing member filling the resonance container to selectively reduce noise of a frequency band; the absorbing member filling the resonance container to selectively reduce noise of a frequency band higher than the predetermined frequency band; but fails to show the absorbing member filling the resonance container is a porous member.

With regard to independent claim 16, as the closest reference of record, the combination of Morinaga (JP 8-203259A), Park (US 6,859,933), and Hirasaka et al (US 6,690,540) discloses a disk drive that slides in and out of the disk drive, the disk tray comprising two or more resonators mounted on a lower surface of the disk tray to selectively reduce at least two peak sound pressure levels that are above 200 Hz, wherein the peak sound pressure levels correspond to dominant noise frequency bands, wherein at least one resonator is a Helmholtz resonator comprising an absorbing member filling a resonance container surrounding a through hole and having a predetermined volume, the resonator being mounted on the disk tray to selectively reduce noise of a predetermined frequency band, the predetermined frequency band being determined according to an area of a profile of the through hole, a length of the bottle neck of the through hole, and the volume of the resonance container, wherein air in the bottle neck begins to resonate to cause interference that causes frequency cancellation for a frequency

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larger than the predetermined frequency band; but fails to show that the absorbing member is a porous material,.

 Applicant asserts that by filling the resonance container with a porous member the high frequency noise band and the overall noise level can be reduced (Specification, [0041]).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tianjie Chen whose telephone number is 571-272-7570. The examiner can normally be reached on 8:00-4:30, Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa Nguyen can be reached on 571-272-7579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov.

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assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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PRIMARY EXAMINER